US MEDIA®

REC'D AUG 14 1987

Material Safety Data Sheet

DPM 6185

SECTION I

Date Prepared: June 1, 1987

MANUFACTURER'S NAME	EMERGENCY/INFORMATION TELEPHONE NO.
U.S. Technology Corporation	203-928-2707

ADDRESS: 328 Kennedy Drive, Putnam, CT 06260

CHEMICAL TYPE	PRODUCT
Urea-Formaldehyde Thermoset Resin	**POLYPLUS®** Plastic Abrasive Media

SECTION II — HAZARDOUS INGREDIENTS

	% Approx.	TLV (Units)			
No TLV has been established for any component of this product.					

SECTION III — PHYSICAL DATA

BOILING POINT (°F.) (APPROX.)	N.A.	SPECIFIC GRAVITY (APPROX.)	1.5
APPEARANCE	Granular	PERCENT VOLATILE BY VOLUME (%) (APPROX.)	0
VAPOR DENSITY COMPARED TO AIR	N.A.	EVAPORATION RATE COMPARED TO ETHER	N.A.
ODOR	None	SOLUBILITY IN WATER	None

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

IGNITION TEMPERATURE °C	FLAMMABLE LIMITS	Lel	Uel
530	N.A. (APPROX.)	N.A.	N.A.

EXTINGUISHING MEDIA: CO_2, dry chemicals or water fog

SPECIAL FIRE FIGHTING PROCEDURES: Do not use high pressure water stream. Fog nozzles are preferable. Water may be used to cool closed containers.

USUAL FIRE AND EXPLOSION HAZARDS: Maintain normal good housekeeping for control of dust. High dust concentration could form explosive mixture with air.

N.A. — Not Applicable

Distributed by Fusco Abrasives Systems

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
See Section II

EFFECTS OF OVEREXPOSURE
May cause minor eye and skin irritation. Excessive dust inhalation may be harmful

EMERGENCY AND FIRST AID PROCEDURES
In case of irritation, flush eyes with plenty of water for 15 minutes, Call a physician. Flush skin with water.

Inhalation: Remove to fresh air and call a physician if necessary.

SECTION VI — REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID	CAS NO.
	UNSTABLE			9011-05-6
	STABLE	X		

INCOMPATABILITY *(materials to avoid)*
No specific Incompatability

HAZARDOUS DECOMPOSITION PRODUCTS
Smoke, Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		None known
	WILL NOT OCCUR	X	

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Sweep up and place waste in disposal container, flush area with water.

WASTE DISPOSAL METHOD
Sanitary land fill in accordance with Federal, State and local regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(specify type)*
Use with adequate ventilation, use NIOSH/MSHA approved respiratory protection in compliance with current OSHA regulations, (l.e. 1910.134 et al) if respiratory protection should be necessary as determined by an Industrial hygiene evaluation.

VENTILATION	LOCAL EXHAUST		SPECIAL EXPLOSION PROOF
	Where necessary to maintain exposure levels to OSHA permissible limit.		May be necessary if airated or airveyed.
	MECHANICAL *(general)* Acceptable	OTHER N.A.	

PROTECTIVE GLOVES	EYE PROTECTION
Normal work gloves advisable	Safety Goggles

OTHER PROTECTIVE EQUIPMENT
Respirator hood if necessary

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
None

OTHER PRECAUTIONS
Determine compliance with OSHA 1910.1000 Table Z-3 Inert or Nuisance Dust.

TRANSPORTATION
Not regulated

N.A. — Not Applicable

DRY
STRIPPING
MEDIA

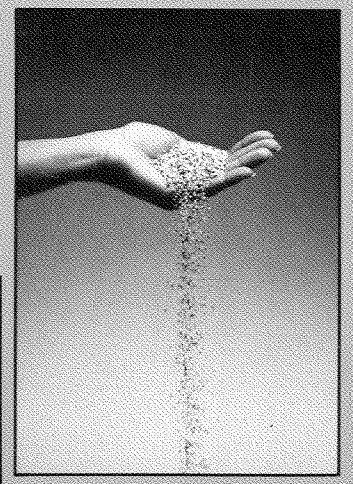
FAST
EASY
EFFICIENT

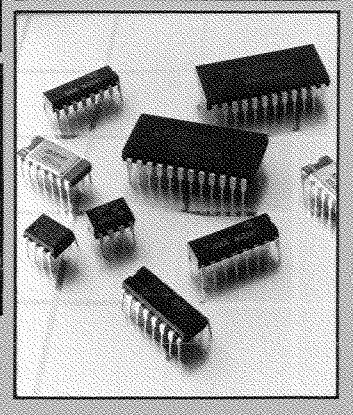
If your operation involves any kind of surface conditioning, treatment, or removal, you should consider the advantages of US DRY STRIPPING MEDIA. It is fast, efficient, and environmentally safe.

Made from a plastic synthetic, the individual particles are irregular in configuration with granular surfaces that incorporate sharp angular edges. When applied, an extremely effective cutting, shearing, and lifting action results. Due to the media's unique physical characteristics it removes buildup without etching, marring, or otherwise damaging most substrates, thus preserving vital surface integrity.

US DRY STRIPPING MEDIA has three different aggression/performance options. With these three distinct formulations—POLYEXTRA, POLYPLUS, and TYPE III—you can select the one best suited to your application needs.

POLYEXTRA, POLYPLUS, and TYPE III are available in two sizing categories: ELECTRONIC GRADE and INDUSTRIAL GRADE. This provides for a choice of either closely sized media for fine detail applications or a broader, more economical sizing distribution for uses where consumption rates are important factors.





POLYEXTRA is formulated for use in soft abrasive finishing and deflashing operations where maintenance of surface tolerance is of the utmost concern and the integrity of the substrate cannot be compromised. Surface contamination can be removed with no distortion or harm occurring to the base material.

POLYEXTRA is uniform from application to application in contrast to agricultural media, for instance, that often varies in consistency from one lot to another. The media is consistent, constant, and reusable.

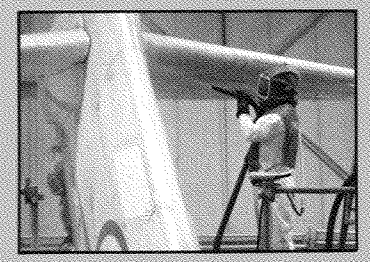
SAVINGS

Cost • Process • Storage • Inspection

POLYPLUS, a more aggressive media than POLYEXTRA, is applicable for a great variety of light industrial cleaning requirements.

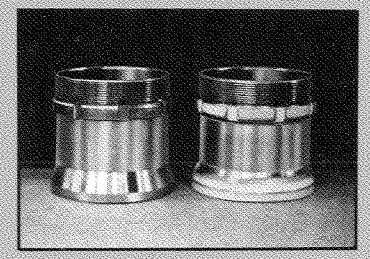
Designed to be used at low pressure settings 25 to 50 p.s.i.—the media is fast and efficient, yet not damaging for most finishing applications.

This media can be dramatically effective as an efficient, cost effective replacement for chemical stripping operations and makes a superb paint remover. It can reduce, if not totally eliminate, chemical consumption.



TYPE III is the most aggressive formulation of US MEDIA. Fast acting and durable, it even approaches metallic abrasives in its surface finishing capabilities.

It is important to note that, despite its high degree of aggression, TYPE III is not harmful to blast cleaning equipment or cabinetry. It does not wear out machinery. Therefore, substantial savings can be realized by eliminating the need to purchase expensive replacement parts.



POLYEXTRA®

APPLICATIONS

Encapsulated electronic components Will not damage delicate parts or mar surfaces. Leaves product surface clean and dust free, ready for identification printing and soldering.

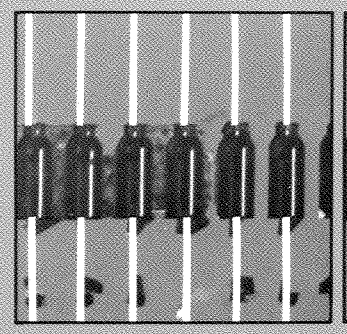
Plastic molded parts Effectively removes flash from parting lines. Removes surface anomalies without damage to the part.

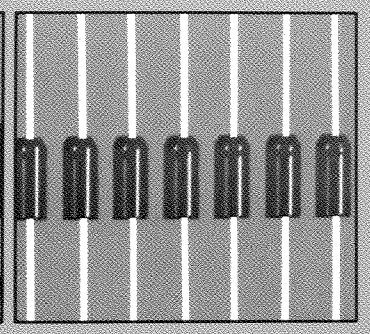
Clear epoxy optical sensors Only media able to remove resin bleed without opaquing surface. Eliminates individual masking requirements.

Aircraft paint removal Removes most types of paint while leaving anodized and alodined surfaces completely intact.

Lead frames Prepares leads for easier and more uniform tinning and coating procedures. Removes flash and resin bleed without impinging surface.

General deburring Removes light surface burrs from many materials without causing surface distortion.





POLYPLUS®

APPLICATIONS

Aircraft fuselage Removes surface coatings and buildup without damage to substrate. Can be successfully used on aluminum, titanium, magnesium, steel, and various composites.

Aircraft components Can be employed on wide variety of off aircraft components—realizing 8:1 to 12:1 savings ratios over chemicals.

Composite structures Strips paint and surface coatings from fiberglass, carbon-graphite, honeycomb, and kevlar substrates without causing fiber bloom or lifting.

Vehicle bodies Paint is readily removed from auto, truck, railcar, and bus bodies. Glass, rubber, and chrome surfaces do not have to be masked.

Die casting Removes flash from cast components without affecting critical surface dimensions.

Burr removal Removes light burrs from components while maintaining integrity of finished part.

TYPE III®

APPLICATIONS

Mold cleaning Readily cleans molds without affecting surface dimensions. Edges are not radiused, thus mold life is prolonged.

Surface sealants Tenacious sealants and adhesives can be safely removed without damage to the substrate.

Paint removal Can be substituted for chemical stripping. In many applications, 10:1 time savings can be realized.

Nuclear decontamination Surface contamination can be removed without causing wear to tools and parts. Cleaning and disposal costs can be dramatically reduced.

Engine components Grease and carbon deposits can be easily dry stripped with no wear to critical mechanical dimensions.

BENEFITS

Time savings Substantial savings in time can be realized, especially in comparison to chemical stripping. Average of 90% on components.

Labor savings Due to the inherent efficiency of the dry stripping process, full scale utilization of the system can reduce man hours significantly in comparison to existing mechanical and chemical procedures.

Chemical hazard reduction Eliminates dangerous chemical fumes, reduces toxic consumption, eases disposal problems. It is clean and reusable.

Positive environmental impact Used properly, the media can reduce/eliminate air, chemical, and water contamination; addressing EPA concerns.

On a Moh's scale of comparative aggression it is readily apparent where US MEDIA lies in relation to several other common abrasives.

	3.0		3.5		4.0			
Agricultural		POLYEXTRA		POLYPLUS		TYPE III	glass beads	silica sand	aluminum oxide
2.5–3.5	US MEDIA fills the void that previously existed in the critical 3.0 to 4.0 Moh hardness range						5.5	6.0	9.0

PHYSICAL CHARACTERISTICS

	POLYEXTRA	POLYPLUS	TYPE III
Hardness (Moh scale)	3.0	3.5	4.0
Specific Gravity (gms/cc)	1.15	1.50	1.50
Bulk Density (lbs./cu. ft.)	45–48	58–60	58–60
Operational Temp.	0°–250°	0°–300°	0°–350°
Chemical Nature	inert	inert	inert

PACKAGING

POLYEXTRA	POLYPLUS	TYPE III
50 lb. bags 200 lb. drums	50 lb. bags 250 lb. drums	50 lb. bags 250 lb. drums

ORDERING INSTRUCTIONS

(A) Designate product either:
POLYEXTRA, POLYPLUS, TYPE III

(B) Specify screen (sieve) size for each product ordered

(C) Specify quantity ordered for each product either in bags or drums

SPECIFICATIONS

POLYEXTRA, POLYPLUS, TYPE III are now available in two sizing categories:

Electronic Grade Where tight media sizing is crucial for close tolerance applications, requiring careful gradation and particle separation.

Industrial Grade Where enhanced media utilization and cost savings are provided through more efficient and effective ranges of sizing distribution. **Recommended for most applications.**

Electronic Grade Inches	Electronic Grade Screen Sizes	Industrial Grade Screen Sizes	Industrial Grade Inches
(.060–.050) (.053–.035)	12–16 16–20	12–20	(.066–.035)
(.038–.021) (.023–.015)	20–30 30–40	20–40	(.038–.015)
(.016–.009) (.010–.005)	40–60 60–80	40–60 60–80	(.016–.009) (.010–.005)

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Material is manufactured to comply with published specifications concerning mesh size, specific gravity, shape, hardness, moisture content, storage stability, and operating temperature range.

Responsibility is disclaimed in the handling, use and storage of this material since it is beyond the scope of our control.